

See First, Understand First, Act First and Finish Decisively.



THERMAL WEAPON SIGHT (TWS) II

The DRS family of AN/PAS-13D(V) Thermal Weapon Sights (TWS) II is the U.S. Army's choice to enhance individual and crew-served weapon capability. The TWS increases warfighter operational effectiveness by seeing deep into the battlefield and increasing surveillance and target acquisition ranges, while penetrating obscurants day or night.

This state-of-the-art 25µm (1 mil) uncooled infrared technology provides the warfighter with a crisp thermal image of target information, thereby increasing situational awareness and reducing mission-critical decision time.

The DRS TWS family is comprised of three variants: the AN/PAS-13D(V)1 Light Weapon Thermal Sight (LWTS) for the M16 and M4 series rifles and carbines as well as the M136 Light Anti-Armor Weapon; the AN/PAS-13D(V)2 Medium Weapon Thermal Sight (MWTS) for the M249 and M240 series medium machine guns and the AN/PAS-13D(V)3 Heavy Weapon Thermal Sight (HWTS) for the squad leader's weapon M16 and M4 series rifles and carbines, M24 and M107 Sniper Rifles, M2 HB, and MK19 machine guns.

- Tactile feel, 4-button operator interface with one-touch feature
- Simple controls and menus
- Electronic image zoom (2X zoom in LWTS and 3X zoom in MWTS and HWTS) to magnify target and improve aimpoint
- High resolution micro-display with operator selected monochrome tint options (Black & White, Green, Amber)
- Rapid change, cassette-style tactical power packs for ready power and reduced down-time during operational engagements

SYSTEM FEATURES

VIEWING

	LWTS	MWTS	HWTS
Detector Type	VOx Microbolometer	VOx Microbolometer	VOx Microbolometer
Array Size	320 x 240	640 x 480	640 x 480
Detector Pitch	25 µm	25 µm	25 µm

OPTICS

Focal Length	26 mm	52 mm	103 mm
f/no.	f/1.0	f/1.2	f/1.1
Aperture	1.0 inch	1.7 inches	3.7 inches
Field of View	18° W / 9° N	18° W / 6° N	9° W / 3° N

POWER

Power Source	4 AA batteries (lithium or alkaline)	6 AA batteries (lithium or alkaline)	6 AA batteries (lithium or alkaline)
Operating Time (with one battery pack change)	27 hours	13 hours	13 hours

PHYSICAL

Weight	2 lbs	3 lbs	4 lbs
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COMMON TO ALL SIGHTS

Display	Automated gray scale optimization	Automated gray scale optimization	Automated gray scale optimization
Symbology	On-screen RS-232 programmable symbology and reticle	On-screen RS-232 programmable symbology and reticle	On-screen RS-232 programmable symbology and reticle
Controls	4-button/6-position keypad	4-button/6-position keypad	4-button/6-position keypad



ACCESSORIES

- Hard-side carry case, soft-side carry case, operator's manual, quick reference guide, batteries, lens cleaning solution, lens cleaning cloth



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Reconnaissance, Surveillance & Target Acquisition Group

3520 US Highway 1, Palm Bay, FL 32905 | Tel 888.DRS.RSTA (888.377.7782) | Fax 321.956.0126 www.drs.com | info@drs-rsta.com